

Please add new claims 32-40 as follows:

32. (New) An information recording medium comprising:
a data recording area in which a lead-in area and a volume space are allocated in advance,
wherein an advanced VAT structure area is allocated in the volume space,
advanced VAT information for managing a relationship between virtual addresses each indicating an address in a virtual address space and logical addresses each indicating an address in a logical address space is recorded in the advanced VAT structure area, and

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in the advanced VAT information, basic structure information indicating a file structure which is indispensable for searching all files recorded in the information recording medium is assigned to at least one of the virtual addresses.

33. (New) An information recording medium according to claim 32, wherein:
the basic structure information includes a file set descriptor and a file entry of a root directory; and

the advanced VAT information includes a first VAT entry for assigning a logical address of the file set descriptor to a virtual address 0, and a second VAT entry for assigning a logical address of the file entry of the root directory to a virtual address 1.

34. (New) An information recording medium according to claim 32, wherein the advanced VAT structure area is allocated at an end of an accessible area.

35. (New) A method for recording information into an information recording medium, the recording medium comprising a data recording area in which a lead-in area and a volume space are allocated in the data recording area in advance,
the method for recording information comprising the steps of:

allocating an advanced VAT structure area in the volume space;
and

recording advanced VAT information for managing a relationship between virtual addresses each indicating an address in a virtual address space and logical addresses each indicating an address in a logical space in the advanced VAT structure area, wherein

in the advanced VAT information, basic structure information indicating a file structure which is indispensable for searching all files recorded in the information recording medium is assigned to at least one of the virtual addresses.

36. (New) A device for recording information into an information recording medium, the recording medium comprising a data recording area in which a lead-in area and a volume space are allocated in the data recording area in advance,

the device for recording information comprising:

a section for allocating an advanced VAT structure area in the volume space; and

a section for recording advanced VAT information for managing a relationship between virtual addresses each indicating an address in a virtual address space and logical addresses each indicating an address in a logical address space is recorded in the advanced VAT structure area, wherein

in the advanced VAT information, basic structure information indicating a file structure which is indispensable for searching all files recorded in the information recording medium is assigned to at least one of the virtual addresses.

37. (New) A method for reproducing information recorded in an information recording medium, the recording medium comprising a data recording area in which a lead-in area and a volume space are allocated in the data recording area in advance,

wherein a volume structure area and an advanced VAT structure area are allocated in the volume space,

advanced VAT information for managing a relationship between virtual addresses each indicating an address in a virtual address space and logical addresses each indicating an address in a logical address space is recorded in the advanced VAT structure area, and

in the advanced VAT information, basic structure information indicating a file structure, which is indispensable for searching all files recorded in the information recording medium is assigned to at least one of the virtual addresses, and

the method for reproducing information comprising the steps of:

obtaining a logical address if the basic structure information from the advanced VAT information recorded in the advanced VAT structure area without accessing the volume structure area; and

reading out the basic structure information in accordance with the logical address of the basic structure information.

38. (New) A device for reproducing information recorded in an information recording medium, the recording medium comprising a data recording area in which a lead-in area and a volume space are allocated in the data recording area in advance,

wherein a volume structure area and an advanced VAT structure area are allocated in the volume space,

advanced VAT information for managing a relationship between virtual addresses each indicating an address in a virtual address space and logical addresses each indicating an address in a logical address space is recorded in the advanced VAT structure area,

in the advanced VAT information, basic structure information indicating a file structure, which is indispensable for searching all files recorded in the information recording medium is assigned to at least one of the virtual addresses,

the device for reproducing information comprising:

a section for obtaining a logical address of the basic structure information from the advanced VAT information recorded in the advanced VAT structure area without accessing the volume structure area; and

a section for reading out the basic structure information in accordance with the logical address of the basic structure information.

39. (New) An information recording medium comprising:
a data recording area in which a lead-in area and a volume space are allocated in advance,

wherein the volume space is configured to allow an advanced VAT structure area to be allocated in the volume space;

advanced VAT information for managing a relationship between virtual addresses each indicating an address in a virtual address space and logical addresses each indicating an address in a logical address space can be recorded in the advanced VAT structure area, and

in the advanced VAT information, basic structure information indicating a file structure which is indispensable for searching all files recorded in the information recording medium is assigned to at least one of the virtual addresses.

40. (New) An information recording medium according to claim 39, wherein:
the basic structure information includes a file set descriptor and a file entry of a root directory; and

the advanced VAT information includes a first VAT entry for assigning a logical address of the file set descriptor of a virtual address 0, and a second VAT entry for assigning a logical address of the file entry of the root directory to a virtual address 1.

REMARKS

Claims 32-40 are pending in the application upon entry of the amendment.
Examination of the application is respectfully requested.

Should the Examiner feel that a telephone interview would be helpful to facilitate favorable prosecution of the above-identified application, the Examiner is invited to contact the undersigned at the telephone number provided below.